



# INSTRUCTION AND USER'S MANUAL

## IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Follow all instructions.
- 3) Keep these instructions.
- 4) Heed all warnings.
- 5) Do not use the LS-100 near water. Be cautious when moving the LS-100 during rain or while transporting it over wet surfaces to prevent water from getting on to the amplifier.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings and operate in accordance with manufacturer's instructions.
- 8) Do not install near heat sources such as radiators, stoves or other devices that may produce heat.
- 9) Do not defeat the safety purpose of the polarization or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The third prong is provided for your safety and must not be defeated. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at the plug and the point where it exits the LS-100 amplifier.
- 11) Only use attachments / accessories specified by B-52 Professional.
- 12) Unplug the LS-100 during lightning storms and when not in use.
- 13) Refer all servicing to qualified personnel. Servicing is required if the LS-100 has been damaged in any way. Do not operate the unit if the power-cord or plug is damaged, liquid has been spilled into the amplifier, the unit has been exposed to moisture or rain, does not operate normally, or has been dropped.
- 14) To reduce the risk of fire or electric shock, do not expose the LS-100 to rain or moisture.
- 15) Moisture can damage the LS-100 and can cause corrosion of electrical contacts.
- 16) Keep the unit out of extended or intense direct sun light. Do not place containers filled with any type of liquid on or near the LS-100.
- 17) Never remove the front or rear panels of the LS-100. There are no user serviceable parts inside.

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## B-52 LS-100 FEATURES

The B-52 LS-100 represents the latest in the ever expanding line of highly acclaimed B-52 guitar amps. New, user-friendly features combined with the latest advancements in preamp technology makes the LS-100 an outstanding choice for the professional player and the weekend warrior. The clean channel now has the innovative B-52 "Mid Cut" feature. This pushbutton allows you to select the classic, warm vintage sound or a pristine, almost acoustic-like tone with tons of headroom. The overdrive channels go from moderate classic breakup to monstrous gain, totally controllable thanks to the individual gain and master controls for each overdrive mode. The overdrive channels now feature the new, B-52 assignable Contour control. This allows you to preset the Contour control and have it automatically activate on the gain channel of your choice. You can set one overdrive channel for a punchy midrange tone with the Contour off and turn the Contour on the other overdrive channel for a massive, totally scooped out metal tone.

- 1/4" input jack
- Overdrive channel with Gain 1, Gain 2, assignable Contour, 3-band EQ and individual Volume 1 and Volume 2 controls
- Clean channel with Volume, 3 band EQ and a
- Mid cut switch.
- Master section with Volume and Reverb controls.
- Rugged footswitch for Channel Select, Gain Select and Reverb on/off.
- Front panel push switches for channel, gain select and Contour assign
- Effects send and return with level controls
- Cabinet simulated line out with level control for direct recording
- Two speaker output jacks
- International voltage select switch for 115 volts and 230 volts
- 27" x 11" x 12" (W x H x D)
- Weight: 34 lbs.



**CAUTION**  
DO NOT OPEN  
RISK OF ELECTRIC SHOCK



**CAUTION:** To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



## **LS-100 100-WATT LEAD GUITAR AMPLIFIER!**

**Thank you for choosing the B-52 LS-100 amplifier.**

This guitar amplifier is perfect for guitarists of every level. Whether you are playing to a stadium crowd of 50,000 or practicing at home in your garage, the LS-100 will produce awesome crunch, smooth mids and crystal-clean highs. It is also capable of producing massive amounts of distortion, perfect for any style from blues to metal.

This instruction manual explains all that the LS-100 has to offer, how to operate and control each feature so you can achieve the sound you desire. B-52 HIGHLY recommends that you read this detailed instruction manual carefully and heed all warnings.

## **B-52 LS-SERIES SPEAKER CABINETS** **(Recommended for use with LS-100)**

**LS-412A – 400-Watt RMS speaker cabinet - Slant**

**LS-412B – 400-Watt RMS speaker cabinet - Straight**

The B-52 LS-412A and LS-412B, 4x12" slant and straight cabinets are a perfect complement to the LS-100 amplifier. They offer awesome tone and incredible projection. With four custom-built, 100-watt 12" speakers, these cabinets provide crystal clear highs and heavy distortion with classic breakup.

### **FEATURES:**

- 4 x 100-watt, custom built, heavy-duty speakers
- 16-gauge metal grille for ultimate protection
- Rear porting for extended low-frequency response
- Metal handles, rubber feet and metal corners
- Detachable casters for easy transport
- Authentic black vinyl finish
- Mono/Stereo Switchable



### **HEARING DAMAGE, PROLONGED EXPOSURE TO EXCESSIVE SPL**

B-52 guitar amplifiers and speakers, including the LS-100, are capable of producing sound pressure levels (SPL) sufficient to cause permanent hearing damage to performers, production crews or people in the audience. Hearing protection devices such ear-plugs are recommended. Caution should be taken to avoid extended SPL in excess of 90 dBA.

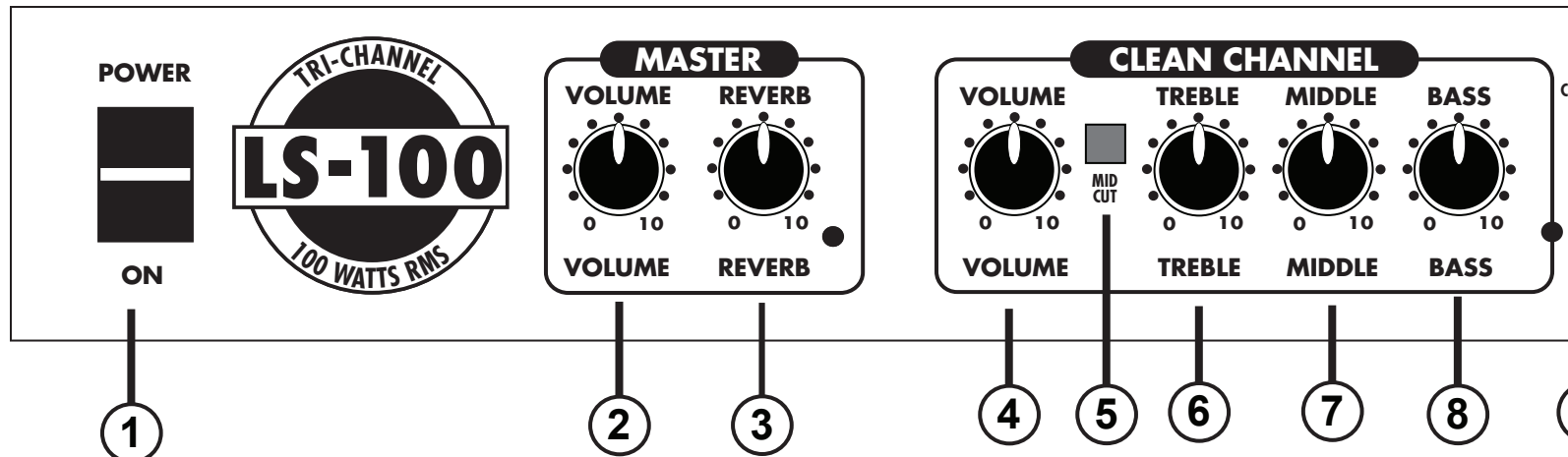
### **AMPLIFIER MODULE PRECAUTIONS**

Do not attempt to service the LS-100 by yourself. Refer all servicing to a B-52 Guitar Amplification Authorized dealer. Service is required when the LS-100 has had liquid spilled on or inside the unit, has been damaged in any way, has been exposed to rain or moisture, does not operate normally or has been dropped.

### **WARNING – SHOCK HAZARD**

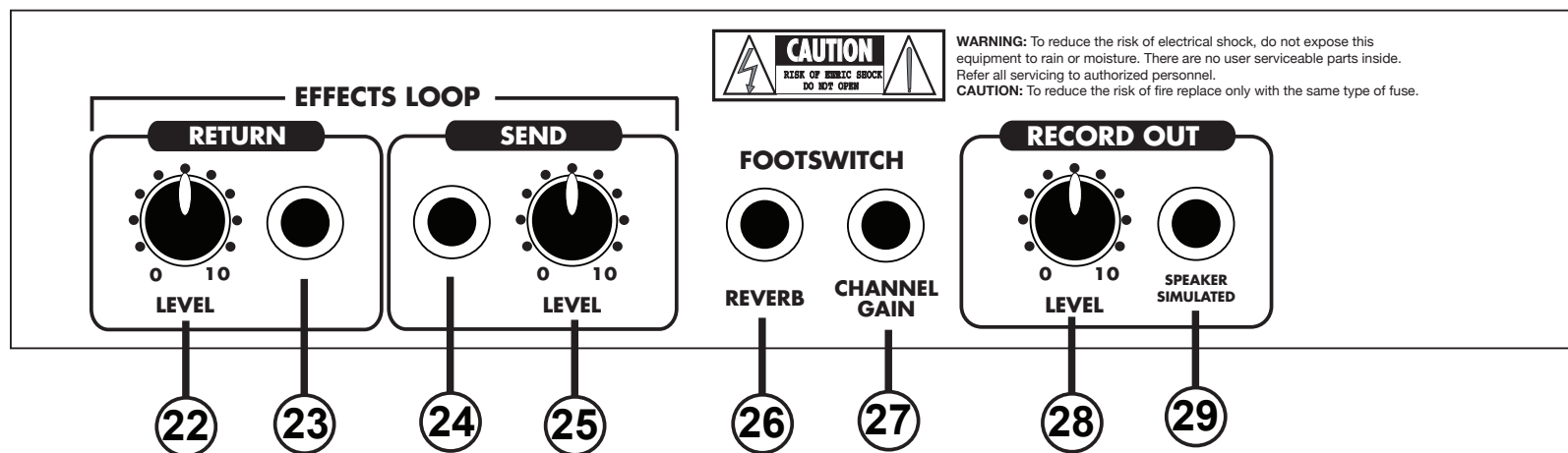
To reduce the risk of fire or electrical shock, do not expose this unit to rain or moisture. Do not operate your LS-100 near a pool or other standing water. Make sure all blades on the polarized power plug are fully inserted into the power source. Ensure the power cord is not stretched, pinched or otherwise abused. Ensure the power cord is routed to avoid foot traffic. Your LS-100 amplifier should be cleaned only with a dry cloth.

## LS-100 FRONT PANEL CONTROLS



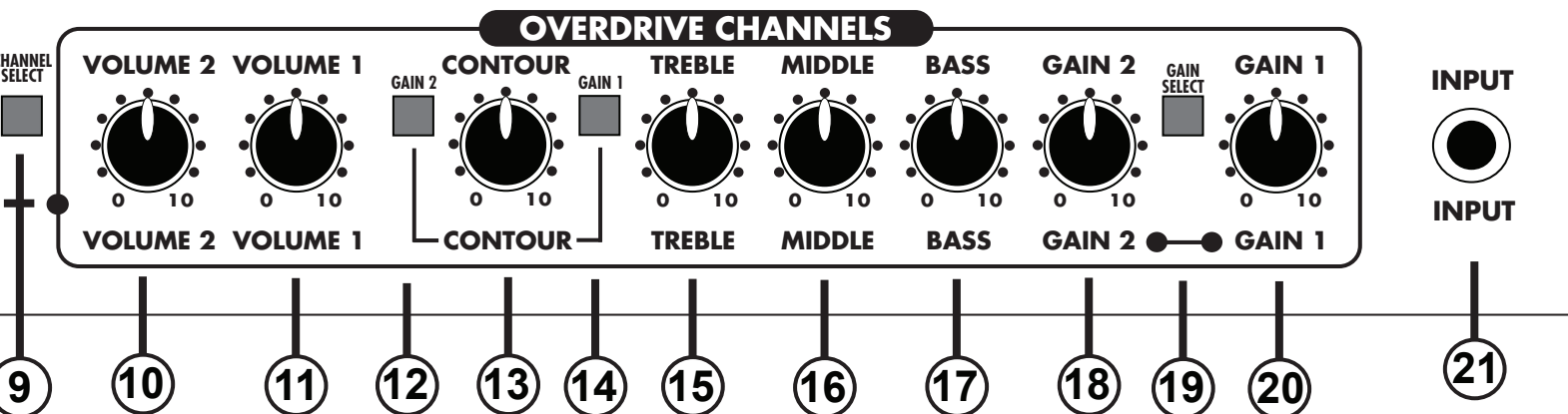
1. **POWER ON/OFF SWITCH:** Turns the LS-100 on and off.
2. **MASTER VOLUME:** Controls the overall loudness of the LS-100. To increase the overall volume, rotate the control clockwise. The Master volume control allows you to control the volume of both the Clean and Overdrive Channels simultaneously.
3. **MASTER REVERB CONTROL:** Adjusts the amount of reverb produced by the amplifier. To increase the amount of reverb, turn clockwise.
4. **CLEAN CHANNEL – VOLUME:** Controls the overall signal level of the clean channel.
5. **CLEAN CHANNEL - MID CUT:** Pushed in, this feature sets the perfect amount of midrange for a truly pristine, almost acoustic-like sound.
6. **CLEAN CHANNEL - TREBLE:** Adjusts the amount of high frequency boost or cut as desired in the clean channel. Treble adds brightness to your tone. Turning this control clockwise will add clarity to your sound. Turning the control counter-clockwise softens the tone.
7. **CLEAN CHANNEL - MIDDLE:** Adjusts the amount of mid-range frequencies as desired in the clean channel. Turning the middle control clockwise will increase the amount of warmth. Counterclockwise settings create a more hollow, mid-scooped tone.
8. **CLEAN CHANNEL - BASS:** Adjusts the amount of low frequency boost or cut as desired. Adding bass will increase the depth and fullness of your sound.
9. **CHANNEL SELECT:** Push switch selects between the clean and overdrive channels. Activated LED lights indicate which channel is in use.
10. **OVERDRIVE – VOLUME 2:** Controls the overall volume of the high gain overdrive channel.

## LS-100 REAR PANEL CONTROLS



22. **EFFECTS – RETURN LEVEL:** Controls the level of the returning signal from an effects unit.
23. **EFFECTS – RETURN JACK:** Connects the LS-100 to the output of an effects unit.
24. **EFFECTS - SEND JACK:** Connects the LS-100 to the input of an effects unit.
25. **EFFECTS – SEND LEVEL:** Controls the signal level being sent to an effects unit.
26. **FOOTSWITCH –REVERB:** Connects footswitch to turn the reverb on/off
27. **FOOTSWITCH – GAIN AND CHANNEL SWITCH:** Switch between Gain 1 and Gain 2 in the Overdrive channel. Also switches between clean and overdrive channel.
28. **RECORD OUT – LEVEL:** Controls the signal level being sent to the PA or recording console.
29. **RECORD OUT – SPEAKER SIMULATED:** This output signal is pre-equalized to simulate the sound

## LS-100 FRONT PANEL CONTROLS



- 11. OVERDRIVE – VOLUME 1:** Controls the overall volume of the medium gain overdrive channel.
- 12. OVERDRIVE CHANNEL – GAIN SWITCH 2:** Activates the CONTOUR control for Gain 2.
- 13. OVERDRIVE CHANNEL – CONTOUR:** Varies the critical midrange tone in the overdrive channels. Adjusts from “classic” midrange punch to “scooped metal” madness.
- 14. OVERDRIVE CHANNEL – GAIN SWITCH 1:** Activates the CONTOUR control for Gain 1.
- 15. OVERDRIVE CHANNEL – TREBLE:** Adjusts the amount of high frequency boost or cut as desired in

the overdrive channel. Turning this control clockwise adds clarity to your sound.

- 16. OVERDRIVE CHANNEL – MIDDLE:** Adjusts the amount of mid-range frequencies as desired in the overdrive channel. Similar to the Clean channel function, the Overdrive channel Middle control adds body and punch to your sound.
- 17. OVERDRIVE CHANNEL – BASS:** Adjusts the amount of low frequency boost or cut as desired in the overdrive channel. Bass is B-52’s signature. Turning this control clockwise increases depth and low-end punch to your music.

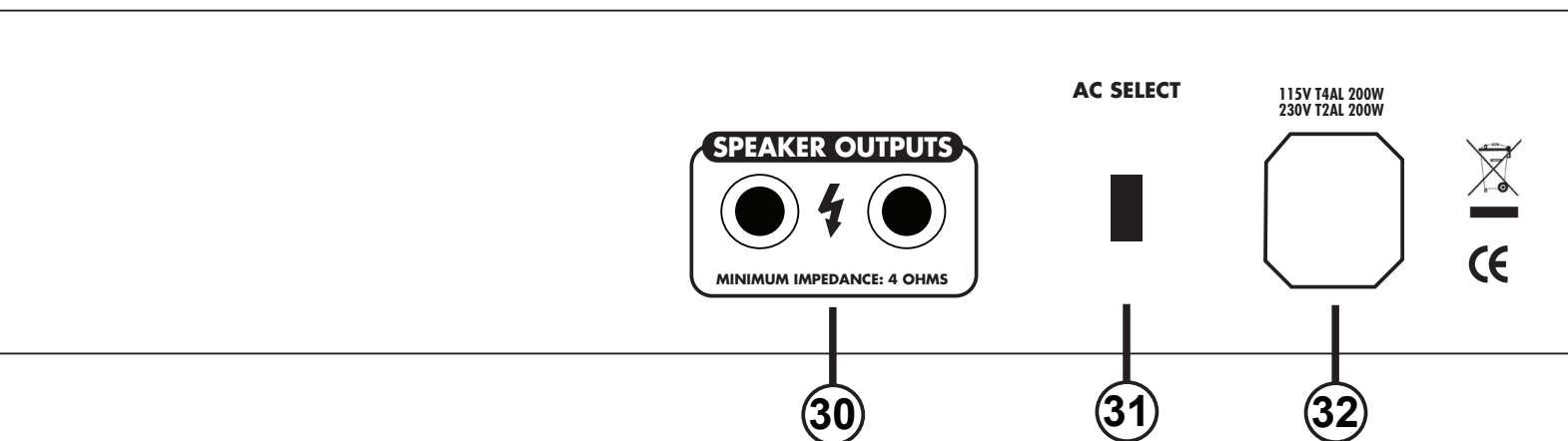
- 18. OVERDRIVE CHANNEL – GAIN 2:** Adjusts the amount of distortion in Gain 1. (Activated LED indicates in use).

- 19. OVERDRIVE CHANNEL – GAIN SWITCH:** Push switch selects between Gain 1 and Gain 2 controls. Activated LED lights indicate which channel is in use.

- 20. OVERDRIVE CHANNEL – GAIN 1:** Adjusts the amount of distortion in Gain 1. (Activated LED indicates in use).

- 21. INPUT CONNECTOR:** Plug your guitar in here. Always use a high quality, shielded cable. Poor cables will rob you of tone and can cause increased noise.

## LS-100 REAR PANEL CONTROLS



- of a speaker cabinet. It allows you to connect directly to your console without the use of a microphone.
- 30. LOUDSPEAKER OUTPUTS:** Connects the LS-100 to the speaker cabinets such as the LS-412A or LS-412B. *NOTE:* Be sure the speakers are plugged in before attempting to operate the amplifier. Always use a high quality, heavy duty, unshielded speaker cable.

- 31. AC SELECT:** 115/230 volt switch for use in different countries. This switch must be properly set or severe damage will result.
- 32. AC INLET & PRIMARY FUSE:** Connects AC powercord and houses primary fuse. Always use correct value as indicated on amp panel chart.

# Special Features of the LS-100

## Setting the effects loop send and return controls:

- 1) Adjust the amp to normal playing volume with nothing plugged into the effects loop.
- 2) Plug an effects unit in and set the return control to 12:00
- 3) Adjust the send control so that the volume is about the same as when the effects were not plugged. Verify this by unplugging the effect unit to compare.
- 4) If, when the effects are plugged in, you notice a loss of tone or distortion, readjust the send control until the tone loss improves. Then readjust the return level control to, once again, match the volume before the effects were connected.

## RECORD OUT:

This output provides a pre-equalized signal that closely mimics the sound of a 4 x 12" cabinet. Instead of placing a microphone in front of the speakers, simply connect this output directly into your recording or PA console. Now you have a consistent, repeatable signal that is no longer dependent on the precise placement of a microphone.

**SPECIAL NOTE:** If when attempting to use the recording out, you notice excessive hum (even with the LS-100 Master volume off), this is an indication of a "ground loop". The solution is to use a direct box with a ground lift switch between the console input and the LS-100 recording output.

# Limited Warranty

Thank you for choosing a B-52 sound product. B-52 manufactures some of the world's best sounding and most reliable professional speaker systems, amplifiers and components. E.T.I. Sound Systems, Inc., makers of B-52, takes great pride in thoroughly testing each B-52 product prior to shipment.

**B-52 CABINETS:** E.T.I. Sound Systems, Inc. offers a lifetime warranty to the original purchaser that a B-52's cabinet construction will be free from defects in material and workmanship. A dated sales receipt will establish coverage under this warranty. This warranty does not cover service or parts to repair damage caused by neglect, abuse, normal & wear and cosmetic appearance of the cabinetry not directly attributed to defects in material or workmanship, or service, repair, modifications of the cabinet, which has not been authorized or approved by E.T.I. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above.

**LOUDSPEAKER AND MID-RANGE COMPONENTS:** E.T.I. Sound Systems, Inc. warrants the original purchaser that B-52 loudspeakers and/or midrange components will be free from defects in material and workmanship for a period of (5) five years from the original purchase date. A dated sales receipt will establish coverage under this warranty. This warranty will automatically terminate (5) years after the original retail sales date. This (5) five-year warranty does not cover service or parts to repair damage caused by accident, disaster, misuse, abuse, burnt voice-coils, over-powering, negligence, inadequate packing or shipping procedures and service, repair or modifications of the component which has not been authorized or approved by E.T.I. This warranty is in lieu of all other expressed warranties. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above.

**HIGH-FREQUENCY DEVICES:** E.T.I. Sound Systems, Inc. offers a (5) five year warranty to the original purchaser that B-52 high frequency (tweeters) devices will be free from defects in material and workmanship. A dated sales receipt will establish coverage under this warranty. This warranty does not warranty neglect or abuse. **NO WARRANTY IS OFFERED ON HIGH-FREQUENCY DEVICES IN B-52 SYSTEMS WITH A BI-AMP SWITCH OPTION.** The (5) five year warranty on high-frequency devices does not cover service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures or service, repair or modifications of the product which has not been authorized or approved by E.T.I. This warranty is in lieu of all other expressed warranties. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above.

**PRO-AUDIO AMPLIFIERS:** E.T.I. Sound Systems, Inc. warrants the original purchaser that B-52 amplifiers will be free from defects in material and workmanship for a period of (2) two years from the original purchase date. A dated sales receipt will establish coverage under this warranty. This warranty will automatically terminate (2) years after the original retail sales date. This (2) two-year warranty does not cover service or parts to repair damage caused by accident, disaster, misuse, abuse, over-powering, negligence, inadequate packing or shipping procedures and service, repair or modifications of the amplifier which has not been authorized or approved by E.T.I. This warranty is in lieu of all other expressed warranties. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above.

**GUITAR AMPLIFIERS - SOLID-STATE:** E.T.I. Sound Systems, Inc. warrants the original purchaser that B-52 solid-state amplifiers will be free from defects in material and workmanship for a period of (5) FIVE years from the original purchase date. A dated sales receipt will establish coverage under this warranty. This warranty

will automatically terminate (5) years after the original retail sales date. This (5) five-year warranty does not cover service or parts to repair damage caused by accident, disaster, misuse, abuse, over-powering, negligence, inadequate packing or shipping procedures and service, repair or modifications of the amplifier which has not been authorized or approved by E.T.I. This warranty is in lieu of all other expressed warranties. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above.

**TUBES:** E.T.I. Sound Systems, Inc. warrants the original purchaser that amplifier tubes used in B-52 Stealth Series tubes will be free from defects in material and workmanship for a period of 90 DAYS from the original date of purchase. A dated sales receipt will establish coverage under this warranty. This warranty will automatically terminate 90 Days after the original retail sales date. This 90-Day warranty does not cover service or parts to repair damage caused by accident, disaster, misuse, abuse, over-powering, negligence, inadequate packing or shipping procedures and service, repair or modifications of the amplifier which has not been authorized or approved by E.T.I. This warranty is in lieu of all other expressed warranties. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above.

**RETURN PROCEDURES:** In the unlikely event that a defect should occur, follow the procedure outlined below. Defective products must be shipped, together with proof of purchase, freight pre-paid and insured to the Authorized B-52 Dealer from whom you purchased the product or directly to E.T.I. Sound Systems. If a product must be returned to E.T.I. Sound Systems for warranty replacement/repair, a Return Authorization Number must be obtained from our Customer Service Department prior to shipping the product.

**NEVER RETURN THE ENTIRE CABINET — JUST THE DEFECTIVE COMPONENT.** Identify and remove the defective component. If you are uncertain which component is defective, or need directions for removing a component, please contact our Customer Service Department for assistance. Components which are a part of an original B-52 speaker box must be sent directly to E.T.I. Products must be shipped in the original packaging or its equivalent; in any case, the risk of loss or damage in transit is to be borne by the purchaser. The Return Authorization Number must appear in large print directly below the shipping address. Always include a brief description of the defect, along with your correct return address and telephone number. When calling to inquire about a returned product, always refer to the Return Authorization Number. If E.T.I. determines that the unit was defective in materials or workmanship at any time during the warranty period, E.T.I. has the option of repairing or replacing the product at no additional charge, except as set forth below. All replaced parts become a property of E.T.I. Products replaced or repaired under this warranty will be returned via ground-shipping-within the United States-freight prepaid. E.T.I. is not responsible for costs associated with expedited shipping, either to E.T.I. or the return of the product to the customer.

**INCIDENTAL OR CONSEQUENTIAL DAMAGE:** In no event will E.T.I. be liable for any incidental or consequential damages arising out of the use or inability to use of any B-52 product, even if E.T.I. or a B-52 dealer has been advised of the possibility of such damages, or any other claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

**FOR YOUR PROTECTION:** Please complete and mail the Purchase Information Card within (10) ten days of the date of purchase so that we may contact you directly in the event a safety notification issued in accordance with the 1972 Consumer Product Safety Act. In addition, we ask that you complete the brief questionnaire so we may analyze your answers and in this way, help us evaluate our customer needs.


**CUSTOMER SERVICE:** Our dedicated staff is ready to help you with any B-52 warrant or product questions you may have. Please call 323-277-4100 (9:00AM to 4:00PM Pacific Standard Time).



# Guide to getting the sound you want

## ACOUSTIC CLEAN

## MODERN CRUNCH + SOLO



**POWER**  **ON**

**LS-100**  
TRI-CHANNEL  
100 WATTS  
SBR

**MASTER**  
VOLUME 0 10 REVERB 0 10


**CLEAN CHANNEL**  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 0 10  
MID CUT ☐

**OVERDRIVE CHANNELS**  
GAIN 1 0 10 GAIN 2 0 10  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 1 0 10 VOLUME 2 0 10  
GAIN SELECT ☐ GAIN 1 GAIN 2  
CONTOUR 0 10

**INPUT**  **INPUT** 

## PRISTINE CLEAN

## ROCK CRUNCH + SOLO



**POWER**  **ON**

**LS-100**  
TRI-CHANNEL  
100 WATTS  
SBR

**MASTER**  
VOLUME 0 10 REVERB 0 10


**CLEAN CHANNEL**  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 0 10  
MID CUT ☐

**OVERDRIVE CHANNELS**  
GAIN 1 0 10 GAIN 2 0 10  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 1 0 10 VOLUME 2 0 10  
GAIN SELECT ☐ GAIN 1 GAIN 2  
CONTOUR 0 10

**INPUT**  **INPUT** 

## CLASSIC CLEAN

## CLASSIC CRUNCH



**POWER**  **ON**

**LS-100**  
TRI-CHANNEL  
100 WATTS  
SBR

**MASTER**  
VOLUME 0 10 REVERB 0 10


**CLEAN CHANNEL**  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 0 10  
MID CUT ☐

**OVERDRIVE CHANNELS**  
GAIN 1 0 10 GAIN 2 0 10  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 1 0 10 VOLUME 2 0 10  
GAIN SELECT ☐ GAIN 1 GAIN 2  
CONTOUR 0 10

**INPUT**  **INPUT** 

## COUNTRY CLEAN

## SOUTHERN ROCK



**POWER**  **ON**

**LS-100**  
TRI-CHANNEL  
100 WATTS  
SBR

**MASTER**  
VOLUME 0 10 REVERB 0 10


**CLEAN CHANNEL**  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 0 10  
MID CUT ☐

**OVERDRIVE CHANNELS**  
GAIN 1 0 10 GAIN 2 0 10  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 1 0 10 VOLUME 2 0 10  
GAIN SELECT ☐ GAIN 1 GAIN 2  
CONTOUR 0 10

**INPUT**  **INPUT** 

## ULTRA CLEAN

## METAL DRIVE + BOOST



**POWER**  **ON**

**LS-100**  
TRI-CHANNEL  
100 WATTS  
SBR

**MASTER**  
VOLUME 0 10 REVERB 0 10


**CLEAN CHANNEL**  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 0 10  
MID CUT ☐

**OVERDRIVE CHANNELS**  
GAIN 1 0 10 GAIN 2 0 10  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 1 0 10 VOLUME 2 0 10  
GAIN SELECT ☐ GAIN 1 GAIN 2  
CONTOUR 0 10

**INPUT**  **INPUT** 

## FUNK CLEAN

## FUNK DRIVE



**POWER**  **ON**

**LS-100**  
TRI-CHANNEL  
100 WATTS  
SBR

**MASTER**  
VOLUME 0 10 REVERB 0 10

**CLEAN CHANNEL**  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 0 10  
MID CUT ☐

**OVERDRIVE CHANNELS**  
GAIN 1 0 10 GAIN 2 0 10  
TREBLE 0 10 MIDDLE 0 10 BASS 0 10  
VOLUME 1 0 10 VOLUME 2 0 10  
GAIN SELECT ☐ GAIN 1 GAIN 2  
CONTOUR 0 10

**INPUT**  **INPUT** 



**B-52 PROFESSIONAL**

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